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selecting one of a plurality of power saving modes,

calculating a remaining operating time from data derived from the remaining battery capacity representative signal and a power saving mode selected in said selecting step, and

displaying both the power saving mode selected in said selecting step and the remaining operating time calculated in the calculating step.

IN THE ABSTRACT:

Line 9, delete "or superimposed on".

REMARKS

This application has been carefully reviewed in light of the Office Action dated March 28, 1996. Claims 1 and 4-7 remain pending for examination, with Claim 8 having been cancelled without prejudice and Claims 1 and 7 having been amended in terms which more clearly define the present invention. Claims 1 and 7 are the only independent claims. Favorable reconsideration is requested.

In the Office Action, the drawings were again objected to as containing foreign language and characters. Applicant had enclosed formal drawings be substituted for the originally filed drawings with the prior Amendment but without a separate formal paper to substitute the drawings. In view of the current objection, Applicant is now submitting

a Request For Approval Of Drawing Changes to substitute a new set of Figs. 1-10 with additional corrections to Figs. 6 and 10, i.e. the changes approved in the current Office Action. These drawings are believed to overcome the objections of the Examiner and the Office Draftsperson, and approval is respectfully requested.

The disclosure has again been objected to, and Applicant has corrected the informalities in the specification as set forth in the Office Action. Applicant has now also corrected an error in the Abstract. Approval is respectfully requested.

In the Office Action, Claims 1 and 4-8 were rejected under 35 U.S.C. § 103 as unpatentable over U.S. Patent 5,239,495 (Nanno et al.) in view of U.S. Patent 5,384,564 (Wycoff et al.) and newly-cited U.S. Patent No. 5,130,659 (Sloan). Because amended Claim 7 now corresponds substantively to cancelled Claim 8 and amended Claim 1 is a corresponding apparatus claim, Applicant respectfully traverses this rejection for the following reasons.

Independent Claim 1 as amended is directed to electric equipment with a power saving mode in which a derivation unit derives a remaining capacity of a battery and a selection unit selects one of plural power saving modes. A calculating unit calculates the remaining operating time from data derived by the deriving unit and the selected power saving mode. Both the selected power saving mode and the

calculated remaining operating time are then displayed on a display unit.

Thus, the present invention recognizes that the remaining operating time may depend on two factors: the remaining battery capacity and the selected power saving mode. That is, one power saving mode may draw more battery power than another and therefore yield a shorter remaining operating time. Accordingly, it is advantageous both to calculate the remaining operating time based on these two factors and to display the power saving mode along with the remaining operating time. Applicant submits that the combination of the cited references fails to suggest these features recited in amended Claim 1, for the following reasons.

Nanno et al. is directed to a power supply control system. As understood by Applicant, in Nanno et al. an LED L1 is green when the CPU operates at a high clock frequency and red when the CPU operates at a low clock frequency (col. 4, lines 9-13). LEDs L2 and L3 are also lit with different colors in dependence on the state of the batteries and AC power supply (col. 4, lines 13-23). However, Nanno et al. fails to disclose a plurality of power saving modes or, as the Office Action acknowledges, selecting from such a plurality of modes.

As understood by Applicant, Wycoff et al. is directed to a power saving circuit for selectively addressable portable receivers that has a plurality of power

saving modes that are activated in response to the content of the signal being transmitted. For example, Wycoff et al. goes into one power saving mode in response to the absence of a preamble in a received signal to deactivate signal processing circuits of the receiver. As acknowledged in the Office Action, Wycoff et al. does not display whether its apparatus is in a power saving mode, or which power saving mode it is in.

Finally, Sloan is directed to a battery monitor to calculate and display the remaining battery time. As understood by Applicant, Sloan discloses its automobile engine operating only in its normal mode, and so fails to disclose even one power saving mode.

Applicant submits that the references cannot be combined as proposed in the Office Action to reach the present invention as defined in amended Claim 1. In the first place, Wycoff et al.'s modes are based on the content of a signal and hence are unrelated to the calculation of a remaining operating time. Accordingly, one of ordinary skill in the art would not find in Wycoff et al. any suggestion that Nanno et al. increase the number of its power saving modes to two or more and then calculate a remaining operating time based, even in part, on the selected power saving mode. Moreover, Wycoff et al.'s modes are also unrelated to a remaining battery power, and hence there is even less reason to rely on Wycoff et al. to suggest plural power saving modes in Nanno et al. and then to calculate a remaining operational

time based on both the remaining battery power and the selected power saving mode.

Applicant further submits that since Wycoff et al.'s modes are based on the content of the signal, e.g. whether a preamble is present, it contains no suggestion that the presence of each such mode be displayed, nor is Applicant aware of a reason to do so.

In summary, even if the cited combination of prior art suggested a plurality of power saving modes, even if it suggested displaying which mode is operating and even if it suggested that the remaining operating time also be displayed, which Applicant does not concede, then the cited combination would still fail to suggest the calculation of the remaining operating time in accordance with the remaining battery power and the selected power saving mode, or the display of both the time and mode, as now recited in amended Claim 1.

Amended Claim 7 is a corresponding method claim and is believed to be patentably distinct for the same reasons.

A review of the other art of record has failed to reveal anything which, in Applicant's opinion, would remedy the deficiencies of the art discussed above, as references against the independent claims herein. Those claims are therefore believed patentable over the art of record.

The other claims in this application are each dependent from one or another of the independent claims discussed above and are therefore believed patentable for the

same reasons. Since each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration or reconsideration, as the case may be, of the patentability of each on its own merits is respectfully requested.

In view of the foregoing amendments and remarks, Applicant respectfully requests favorable reconsideration and early passage to issue of the present application.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 758-2400. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,

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